

**What is claimed is:**

1. (Original) A method for extracting intact cytoplasmic biomolecules from cells, which method comprises:
  - a. obtaining a fluid sample from a test subject, said fluid sample comprising a mixture of cell populations suspected of containing target cells;
  - b. releasing said cytoplasmic biomolecules from said cells;
  - c. isolating said cytoplasmic biomolecules; and
  - d. analyzing said cytoplasmic biomolecules.
2. (Original) The method as claimed in claim 1, wherein said fluid sample is whole blood.
3. (Previously Amended) The method as claimed in claim 1, wherein selection of said target cells is accomplished by immunomagnetic selection.
4. (Original) The method according to claim 1, wherein said releasing step is accomplished by addition of a permeabilizing agent.
5. (Original) The method according to claim 4, wherein said permeabilizing agent is selected from the group consisting of a detergent, surfactant, and combinations thereof.
6. (Currently Amended) The method according to claim 4, wherein said permeabilizing agent is saponin ~~selected from the group consisting of saponin, Immuniperm, and combinations thereof.~~
7. (Cancel)
8. (Original) The method according to claim 1, wherein said obtaining said fluid sample includes treating the sample with a cell stabilizing agent.
9. (Previously Amended) The method according to claim 8, wherein said stabilizing agent is aldehydes.
10. (Cancel).
11. (Cancel).
12. (Cancel).
13. (Original) The method according to claim 8, wherein said releasing of said cytoplasmic biomolecules involves macromolecular complexes formed after exposure to said stabilizing agent.

14. (Original) The method according to claim 13, wherein said releasing said cytoplasmic biomolecules from said cells is accomplished with enzymatic digestion.
15. (Previously Amended) The method according to claim 14, wherein said enzymatic digestion is accomplished with proteinase K digestion.
16. (Cancel).
17. (Original) The method according to claim 15, wherein said nucleophiles are from a group consisting of phosphate-based buffers, tris-based buffers, acetic hydrazide, hydroxylamine, and combinations thereof.
18. (Cancel).
19. (Cancel).
20. (Original) The method according to claim 1, wherein said cytoplasmic biomolecules are nucleic acids.
21. (Cancel).
22. (Cancel).
23. (Currently Amended) The method according to claim 20, wherein ~~the method of isolating said nucleic acids is RNA is selected from the group consisting of RNA or DNA chemical extractions, electrophoresis, chromatography, immunoseparations and affinity techniques.~~ is RNA
24. (Original) The method according to claim 20, wherein said isolating of said nucleic acids is accomplished by capture with magnetic beads affixed to oligo(dT).
25. (Original) The method according to claim 1, wherein said target cells are assessed for phenotypic expression other than with said cytoplasmic biomolecules after obtaining said fluid sample.
26. (Previously Amended) The method according to claim 25, wherein said phenotypic expression is selected by morphological examining.
27. (Cancel).
28. (Cancel).
29. (Cancel).
30. (Cancel)

31. (Original) The method according to claim 1, wherein said analyzing of said cytoplasmic RNA for the presence of at least two genetic markers is accomplished by multigene RT-PCR.

Claims 32-186 (Cancel)